

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/694,711A
Source: 1Fw/16
Date Processed by STIC: 1/11/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/694,711A

CRF Edit Date: 1/11/06
Edited by: [Signature]

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:



IFW

RAW SEQUENCE LISTING

DATE: 01/11/2006

PATENT APPLICATION: US/10/694,711A

TIME: 11:13:36

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01112006\J694711A.raw

3 <110> APPLICANT: Stein, Gary S.
 4 van Wijnen, Andre J.
 5 Janet, Stein L.
 6 Mitra, Partha
 7 Xie, Ronglin
 9 <120> TITLE OF INVENTION: MODULATION OF CELLULAR PROLIFERATION
 11 <130> FILE REFERENCE: 07917-164001
 13 <140> CURRENT APPLICATION NUMBER: US 10/694,711A
 14 <141> CURRENT FILING DATE: 2003-10-27
 16 <150> PRIOR APPLICATION NUMBER: US 60/421,166
 17 <151> PRIOR FILING DATE: 2002-10-25
 19 <160> NUMBER OF SEQ ID NOS: 32
 21 <170> SOFTWARE: PatentIn version 3.2
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 28
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Artificial
 28 <220> FEATURE:
 29 <223> OTHER INFORMATION: synthetic polynucleotide - Site II minimal binding sequence
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 35 <210> SEQ ID NO: 2
 36 <211> LENGTH: 28
 37 <212> TYPE: DNA
 38 <213> ORGANISM: artificial
 40 <220> FEATURE:
 41 <223> OTHER INFORMATION: synthetic polynucleotide - Site II minimal binding sequence
 42 mutant
 44 <400> SEQUENCE: 2
 45 gatccttcgg ttttcaatct tctacgat 28
 48 <210> SEQ ID NO: 3
 49 <211> LENGTH: 18
 50 <212> TYPE: PRT
 51 <213> ORGANISM: Homo sapiens
 53 <400> SEQUENCE: 3
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 56 1 5 10 15
 59 Gln Glu
 63 <210> SEQ ID NO: 4
 64 <211> LENGTH: 16
 65 <212> TYPE: PRT
 66 <213> ORGANISM: Homo sapiens
 68 <400> SEQUENCE: 4

RAW SEQUENCE LISTING

DATE: 01/11/2006

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01112006\J694711A.raw

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71 1          5          10          15
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76 <212> TYPE: DNA
77 <213> ORGANISM: Homo sapiens
79 <400> SEQUENCE: 5
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82 cgcctcctgg gaaagttccc cgaaaggaga atctgtggct acagtgtgag tgggggtcct      120
84 gctcctttgt gtgctcaacc atggaaaagt tctttgagca tgtcactcag cacctgcagc      180
86 agcacctgca tggctctggg gaggaggagg aagagggaaga ggaggatgac ccacttgagg      240
88 aagaattctc ctgcttgtgg caggaatgtg gcttttgttc tctggacagt tctgctgacc      300
90 tcatccgcca tgtctacttc cactgctacc acaccaagct gaaacagtgg gggctgcagg      360
92 ccttgcaaag ccaggtgac cttggccctt gcatcctgga cttccagagc cggaacgtca      420
94 tccctgatat ccttgaccac ttctgtgtgc tgtgggagca ctgtgagaat tccttcgaca      480
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120 aggaacatga agatggctat atgcggtctg agctgggtcg ctacgagagt gtagagctga      1260
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124 gcagcctgca gggcattatt ctagaacag tgccaggggg gccaggacgt aaggaagagg      1380
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130 tgctgtctga agccccaggg gagcctcccc cagtccctga gccaccttca gggggcatca      1560
132 tggaaaagct tcaaggaata gctgaggagc cagagatcca gatggtttga aggccgcaga      1620
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140 tttgtgggga gcctgaggac tctggattct ttgaggggat cctggatgtg tgtgttcttg      1860
142 ttaaagaggc tgttatcagg cttaactata accctcaaga tctgcttgac agtgattaaa      1920
144 tccttagctc acatccattc ccatttttcg ggctccttag gccaaggat ggcattgtgac      1980
146 tggtccttgc aagggtcctt tctttgtcac cagccaaggc attgataacc aagtagccat      2040
148 tttcctctta aggtttcctc tacaacccca aggactttca tgattatcct cagggacagg      2100
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155 <210> SEQ ID NO: 6
156 <211> LENGTH: 517
157 <212> TYPE: PRT
158 <213> ORGANISM: Homo sapiens
160 <400> SEQUENCE: 6

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RAW SEQUENCE LISTING

DATE: 01/11/2006

PATENT APPLICATION: US/10/694,711A

TIME: 11:13:36

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01112006\J694711A.raw

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162 Met Pro Pro Pro Gly Lys Val Pro Arg Lys Glu Asn Leu Trp Leu Gln
163 1 5 10 15
166 Cys Glu Trp Gly Ser Cys Ser Phe Val Cys Ser Thr Met Glu Lys Phe
167 20 25 30
170 Phe Glu His Val Thr Gln His Leu Gln Gln His Leu His Gly Ser Gly
171 35 40 45
174 Glu Glu Glu Glu Glu Glu Glu Asp Asp Pro Leu Glu Glu Glu Phe
175 50 55 60
178 Ser Cys Leu Trp Gln Glu Cys Gly Phe Cys Ser Leu Asp Ser Ser Ala
179 65 70 75 80
182 Asp Leu Ile Arg His Val Tyr Phe His Cys Tyr His Thr Lys Leu Lys
183 85 90 95
186 Gln Trp Gly Leu Gln Ala Leu Gln Ser Gln Ala Asp Leu Gly Pro Cys
187 100 105 110
190 Ile Leu Asp Phe Gln Ser Arg Asn Val Ile Pro Asp Ile Pro Asp His
191 115 120 125
194 Phe Leu Cys Leu Trp Glu His Cys Glu Asn Ser Phe Asp Asn Pro Glu
195 130 135 140
198 Trp Phe Tyr Arg His Val Glu Ala His Ser Leu Cys Cys Glu Tyr Glu
199 145 150 155 160
202 Ala Val Gly Lys Asp Asn Pro Val Val Leu Cys Gly Trp Lys Gly Cys
203 165 170 175
206 Thr Cys Thr Phe Lys Asp Arg Ser Lys Leu Arg Glu His Leu Arg Ser
207 180 185 190
210 His Thr Gln Glu Lys Val Val Ala Cys Pro Thr Cys Gly Gly Met Phe
211 195 200 205
214 Ala Asn Asn Thr Lys Phe Leu Asp His Ile Arg Arg Gln Thr Ser Leu
215 210 215 220
218 Asp Gln Gln His Phe Gln Cys Ser His Cys Ser Lys Arg Phe Ala Thr
219 225 230 235 240
222 Glu Arg Leu Leu Arg Asp His Met Arg Asn His Val Asn His Tyr Lys
223 245 250 255
226 Cys Pro Leu Cys Asp Met Thr Cys Pro Leu Pro Ser Ser Leu Arg Asn
227 260 265 270
230 His Met Arg Phe Arg His Ser Glu Asp Arg Pro Phe Lys Cys Asp Cys
231 275 280 285
234 Cys Asp Tyr Ser Cys Lys Asn Leu Ile Asp Leu Gln Lys His Leu Asp
235 290 295 300
238 Thr His Ser Glu Glu Pro Ala Tyr Arg Cys Asp Phe Glu Asn Cys Thr
239 305 310 315 320
242 Phe Ser Ala Arg Ser Leu Cys Ser Ile Lys Ser His Tyr Arg Lys Val
243 325 330 335
246 His Glu Gly Asp Ser Glu Pro Arg Tyr Lys Cys His Val Cys Asp Lys
247 340 345 350
250 Cys Phe Thr Arg Gly Asn Asn Leu Thr Val His Leu Arg Lys Lys His
251 355 360 365
254 Gln Phe Lys Trp Pro Ser Gly His Pro Arg Phe Arg Tyr Lys Glu His
255 370 375 380
258 Glu Asp Gly Tyr Met Arg Leu Gln Leu Val Arg Tyr Glu Ser Val Glu

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RAW SEQUENCE LISTING

DATE: 01/11/2006

PATENT APPLICATION: US/10/694,711A

TIME: 11:13:36

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01112006\J694711A.raw

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259 385          390          395          400
262 Leu Thr Gln Gln Leu Leu Arg Gln Pro Gln Glu Gly Ser Gly Leu Gly
263          405          410          415
266 Thr Ser Leu Asn Glu Ser Ser Leu Gln Gly Ile Ile Leu Glu Thr Val
267          420          425          430
270 Pro Gly Glu Pro Gly Arg Lys Glu Glu Glu Glu Gly Lys Gly Ser
271          435          440          445
274 Glu Gly Thr Ala Leu Ser Ala Ser Gln Asp Asn Pro Ser Ser Val Ile
275          450          455          460
278 His Val Val Asn Gln Thr Asn Ala Gln Gly Gln Gln Glu Ile Val Tyr
279 465          470          475          480
282 Tyr Val Leu Ser Glu Ala Pro Gly Glu Pro Pro Pro Val Pro Glu Pro
283          485          490          495
286 Pro Ser Gly Gly Ile Met Glu Lys Leu Gln Gly Ile Ala Glu Glu Pro
287          500          505          510
290 Glu Ile Gln Met Val
291          515
294 <210> SEQ ID NO: 7
295 <211> LENGTH: 3840
296 <212> TYPE: DNA
297 <213> ORGANISM: Homo sapiens
299 <400> SEQUENCE: 7
300 atgttggttac cctcggacgt agcccggtt gtattgggtt acttacagca agaaaacctc 60
302 atttataacct gccagacttt tattttggaa agttcagatt taaaagaata tgcagaacat 120
304 tgtacagatg aagggtttat tccagcctgc ttactgtcct tatttggaaa aaacttgaca 180
306 acaatttttaa atgagtatgt agctatgaaa acaaaagaaa catcaaataa tgtcccagca 240
308 ataatgtcat ctctatggaa gaaattggac catacacttt ctcatatcag gagcatgcaa 300
310 agttcccca gggttgctgg cagtcagaga gcccgaaaga gaactggaat tgcagaaatc 360
312 aaacggcaga gaaagcttgc atctcaaaaca gctccagcca gtgcagagtt gctcacttta 420
314 ccttaccttt caggacagtt taccactcct ccttccacag gtacacaggt tactcgacca 480
316 agtggccaaa ttccagatcc atcgaggtca tattttgtag tgggtcaacca ctcacagtca 540
318 caagatactg taaccactgg agaagcttta aatgtcattc ctggtgctca ggaaaagaaa 600
320 gcacatgcca gtttaatgtc tcccggtaga cgcaaaagtg aatctcagag aaaaagtacc 660
322 actttgtctg gccctcattc aacaatacgg aatttccaag atccaaacgc ttttgcagta 720
324 gaaaaacaaa tgggtattga aaatgcacgg gaaaaaatac taagcaacaa atctcttcaa 780
326 gaaaagctag cagaaaacat aaataaattt ttaactagtg ataacaatat tgcccaagta 840
328 cctaagcaaa cagataacaa ccctacggag ccagagactt caattgatga attcctagga 900
330 cttccgagtg aaattcacat gtctgaagaa gctatacagg acatattgga acagacagaa 960
332 tcagacccag catttcaggc actctttgat ctctttgact atggcaaaac aaagaataat 1020
334 aaaaatatat cacaagatat ttccagtcac cctatggaat ccaatcccag tatagtctta 1080
336 gcagatgaaa ctaactctagc agttaaagggt tcttttgaaa cagaagaatc tgatgggtcag 1140
338 tctgggtcagc ccgctttttg tacatcctat cagaatgatg acccattaaa tgctttgaag 1200
340 aatagcaaca accatgatgt gcttagacaa gaagaccagg aaaatttttc ccaaataagt 1260
342 accagcatac agaaaaaggc ctttaaaaca gctgtaccca ctgaacagaa gtgtgacatt 1320
344 gacattacct ttgagtccgt gcctaatttg aatgacttta accaaagagg gaattctaata 1380
346 gctgaatgta atccacattg tgctgaatta tacaccaatc agatgtccac tgaaactgaa 1440
348 atggctatag ggattgaaaa gaactctttg tcttcaaata taccgagtga atctcagtta 1500
350 cagcctgatc agcctgatat accaataact tcatgtgttt cacttggttg tgaagctaac 1560
352 aatgaaaact taattctctc tgggaagagt tctcaacttt tatcccaaga tacttcatta 1620

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RAW SEQUENCE LISTING

DATE: 01/11/2006

PATENT APPLICATION: US/10/694,711A

TIME: 11:13:36

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01112006\J694711A.raw

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354 actggaaagc catctaaaaa aagtcaattt tgtgaaaatt ctaatgatac agtaaaactt 1680
356 aaaattaatt ttcattgggtc caagtcacat gattctagtg aagttcacaa gagtaaaata 1740
358 gaaattaatg tgtagaacc agttatgtca cagctatcaa attgccaaga taattcttgt 1800
360 cttcaaagtg aaatactacc tgtgtctgtt gaaagttcac atttaaatgt atctggacaa 1860
362 gtagaaattc atcttgagga ttcgtctgtc tctactaaac aacctctaa tgattcagca 1920
364 tctgttgagt taaatcatat agaaaatgaa gctcaggcat ccaagtctga gaattcacag 1980
366 gagccttcat cttctgtaaa agaagagaat actatttttc tctctttagg tggaaatgct 2040
368 aactgtgaga aagttgcact gacgcctcca gaaggcactc ctgtagaaaa cagtcactct 2100
370 cttcctccag aatctgtgtg ttcttcagtg ggagattctc accctgagtc ccaaaatact 2160
372 gatgacaaac cttctagcaa caactcagca gagatagatg catcaaatat cgtctctctc 2220
374 aaagttatca ttagtgatga tccatttggt tcttcagata ctgaacttac cagtgtgtgt 2280
376 tctagtatta atggagaaaa cctgccact ataactctgt cttctctac taaatcacct 2340
378 actaaaaatg cagaactagt taaatgccta tcttcagaag aaactgtagg tgctgttgta 2400
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382 gactctgcag taaacaatac tcagaatgaa gatggcattg ctttttcagc taatgttaca 2520
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386 ggcaattcaa ataacattct gatagctacc tgtgtgactg atccaacagc gttaggaaca 2640
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392 gctgtgtcac caaacttttc acaaggatct gccataataa ttgcctctcc agtccagcct 2820
394 gtactccaag gaatggtagg gatgatccca gtatctgtgg ttggacagaa tggaaataac 2880
396 ttttctactc ctctcggga ggttcttcat atgcctttga cagcacctgt atgcaataga 2940
398 agtatccctc aattccccgt cctccaaaaa tctcagaagg ctcagggact aagaaacaag 3000
400 ccttgtatag gaaaacaagt aaataatttg gtggattcgt caggtcattc agttggatgt 3060
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408 cataagatgg tgtcccaaaa caaagaaagg aatgcagttc cttttcctaa tcttgactca 3300
410 cccaatgtgt cctccacctt aaaacccccct tctaataatg ctatcaaaag agagaaagag 3360
412 aagcctctc tgccaaagat tttatctaaa tcggaaagtg ccattagccg gcataccacc 3420
414 ataagagaaa ctcaatcaga aaagaaagtt tctccaacag aaattgtgct tgaatctttc 3480
416 cataaagcaa cagctaataa ggagaatggg gatatactat cttcttgatg tgcagtttta 3540
418 tttagttagc tagtattttg ttgaggactt ttgcatctat gctcatcagg gatagtggtc 3600
420 tgcagttttc tttttattat gtcctttcct ggttttgata ttagatcagg gaagatttcc 3660
422 tcaattgttt gttcaataaa gttttccaaa cttgtagcct tgtcttctcc ctcaggaatg 3720
424 ccaatcattc ttaggttttg ctttttcaca taatctcata tttcttagag actttgtcca 3780
426 cttcttttga ttatttttct ttatctttgt ctaattggat aatttgaaag ccttgtcttg 3840

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429 <210> SEQ ID NO: 8

430 <211> LENGTH: 1175

431 <212> TYPE: PRT

432 <213> ORGANISM: Homo sapiens

434 <400> SEQUENCE: 8

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440 Gln Glu Asn Leu Ile Tyr Thr Cys Gln Thr Phe Ile Leu Glu Ser Ser
441 20 25 30
444 Asp Leu Lys Glu Tyr Ala Glu His Cys Thr Asp Glu Gly Phe Ile Pro
445 35 40 45
448 Ala Cys Leu Leu Ser Leu Phe Gly Lys Asn Leu Thr Thr Ile Leu Asn

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/11/2006
PATENT APPLICATION: US/10/694,711A TIME: 11:13:37

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\01112006\J694711A.raw

Base Note:

One or more n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> <223> fields of each sequence which presents at least one n or Xaa.

Seq#:29; N Pos. 1,4,5,6,9,11,12,19,20

Invalid <213> Response:

One or more "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

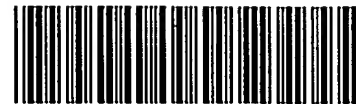
Seq#:1,2,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31
Seq#:32

VERIFICATION SUMMARY DATE: 01/11/2006
PATENT APPLICATION: US/10/694,711A TIME: 11:13:37

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\01112006\J694711A.raw

1030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0

**Raw Sequence Listing before editing,
for reference only**



IFW16

RAW SEQUENCE LISTING DATE: 01/11/2006
 PATENT APPLICATION: US/10/694,711A TIME: 09:45:46

Input Set : A:\seqlist.txt
 Output Set: N:\CRF4\01112006\J694711A.raw

3 <110> APPLICANT: Stein, Gary S.
 4 van Wijnen, Andre J.
 5 Janet, Stein L.
 6 Mitra, Partha
 7 Xie, Ronglin
 9 <120> TITLE OF INVENTION: MODULATION OF CELLULAR PROLIFERATION
 11 <130> FILE REFERENCE: 07917-164001
 13 <140> CURRENT APPLICATION NUMBER: US 10/694,711A
 14 <141> CURRENT FILING DATE: 2003-10-27
 16 <150> PRIOR APPLICATION NUMBER: US 60/421,166
 17 <151> PRIOR FILING DATE: 2002-10-25
 19 <160> NUMBER OF SEQ ID NOS: 32
 21 <170> SOFTWARE: PatentIn version 3.2

ERRORED SEQUENCES

**Does Not Comply
 Corrected Diskette Needed**

1059 <210> SEQ ID NO: 32
 1060 <211> LENGTH: 8
 1061 <212> TYPE: PRT
 1062 <213> ORGANISM: Artificial
 1064 <220> FEATURE:
 1065 <223> OTHER INFORMATION: minimal phosphorylation consensus sequence
 1067 <400> SEQUENCE: 32
 1069 Tyr Glu Ser Val Glu Leu Thr Glu
 1070 1 5
 E--> 1073 8
 E--> 1076 1

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/11/2006
PATENT APPLICATION: US/10/694,711A TIME: 09:45:47

Input Set : A:\seqlist.txt
Output Set: N:\CRF4\01112006\J694711A.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31
Seq#:32

VERIFICATION SUMMARY

DATE: 01/11/2006

PATENT APPLICATION: US/10/694,711A

TIME: 09:45:47

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\01112006\J694711A.raw

L:1030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0

L:1073 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:32

M:332 Repeated in SeqNo=32